ELSEVIER

Physica C 312 (1999) 329–331

PHYSICA C

Author Index to Volume 312

Alarco, J.A., see Riches, J.D., **312** (1999) 21
Andreone, A., C. Aruta, F. Fontana, M. Iavarone, M.L. Russo, R. Vaglio, G.W. Crabtree, Y. de Wilde and M. Polichetti, Properties of $ErNi_2B_2C$ superconducting thin films, **312** (1999) 1
Angurel, L.A., see Mora, M., **312** (1999) 136
Aoki, R., see Svistunov, V.M., **312** (1999) 40
Aruta, C., see Andreone, A., **312** (1999) 1
Assmann, W., see Calestani, G., **312** (1999) 225
Attanasio, C., C. Coccorese, L.V. Mercaldo, M. Salvato, L. Maritato, S.L. Prischepa, C. Giannini, L. Tapfer, L. Ortega and F. Comin, Upper critical magnetic field and vortex pinning in superconducting/spin glass multilayers, **312** (1999) 112
Azhan, H., see Halim, S.A., **312** (1999) 78

Baggio-Saitovitch, E., see Li, Y., **312** (1999) 283
Barowski, H., see Calestani, G., **312** (1999) 225
Barry, J.C., see Riches, J.D., **312** (1999) 21
Berghuis, P., see Suzuki, M., **312** (1999) 191
Bernhard, C., see Munzar, D., **312** (1999) 121
Boffa, V., T. Petrisor, S. Ceresara, L. Ciontea, F. Fabbri and P. Scardi, Laser-ablation deposition of CeO_2 thin films on biaxially textured nickel substrates, **312** (1999) 202
Bolz, U., see Kittelberger, S., **312** (1999) 7
Bruchlos, G., see He, Z.H., **312** (1999) 261

Calestani, G., A. Migliori, U. Spreitzer, S. Hauser, M. Fuchs, H. Barowski, T. Schauer, W. Assmann, K.-J. Range, A. Varlashkin, O. Waldmann, P. Müller and K.F. Renk, Ba–Ca–Cu oxycarbonate thin films, prepared by pulsed laser deposition: structure, growth mechanism and superconducting properties, **312** (1999) 225
Canfield, P.C., see Cheon, K.O., **312** (1999) 35
Cantelli, R., see Cordero, F., **312** (1999) 213
Cao, G.H., see Li, Y., **312** (1999) 283
Cao, L.Z., see Qian, G.G., **312** (1999) 299
Cao, Q., see Qian, G.G., **312** (1999) 299
Cao, X.W., see Wang, Z.H., **312** (1999) 85
Cappelluti, E. and R. Zeyher, Competition of an incommensurate flux phase and superconductivity in a t–J model with Coulomb interactions, **312** (1999) 313
Cardona, M., see Munzar, D., **312** (1999) 121
Ceresara, S., see Boffa, V., **312** (1999) 202
Chang, C.F., see Chatterjee, S., **312** (1999) 55
Chatterjee, S., S.S. Weng, I.P. Hong, C.F. Chang, H.D. Yang and J.-Y. Lin, Contributions of CuO_2 planes and CuO chains on the transport properties of $YBa_2Cu_4O_8$, **312** (1999) 55
Chaud, X., see Wang, J., **312** (1999) 328
Che, G.C., see Li, Y., **312** (1999) 283
Chen, X.H., see Qian, G.G., **312** (1999) 299
Chen, Z.Y., see Wang, Z.H., **312** (1999) 85
Cheon, K.O., I.R. Fisher and P.C. Canfield, Boron isotope effect in single-crystal YNi_2B_2C and $LuNi_2B_2C$ superconductors, **312** (1999) 35
Ciontea, L., see Boffa, V., **312** (1999) 202
Coccorese, C., see Attanasio, C., **312** (1999) 112
Cochrane, J.W., see Lin, Z.W., **312** (1999) 247
Comin, F., see Attanasio, C., **312** (1999) 112
Cordero, F. and R. Cantelli, Interstitial O and O vacancies in $La_2CuO_{4+\delta}$ during high-temperature treatments, **312** (1999) 213
Crabtree, G.W., see Andreone, A., **312** (1999) 1

Delamare, M.P., see Wang, J., **312** (1999) 328
Desgardin, G., see Wang, J., **312** (1999) 328
De Wilde, Y., see Andreone, A., **312** (1999) 1
Dou, S.X., see Li, J.N., **312** (1999) 71
D'yachenko, A.I., see Svistunov, V.M., **312** (1999) 40

Eckert, D., see Narozhnyi, V.N., **312** (1999) 233
Erraud, A., see Wang, J., **312** (1999) 328
Eulenburg, A., E.J. Romans, Y.C. Fan and C.M. Pegrum, Pulsed laser deposition of $YBa_2Cu_3O_{7-\delta}$ and $NdBa_2Cu_3O_{7-\delta}$ thin films: a comparative study, **312** (1999) 91
Evetts, J., see Suzuki, M., **312** (1999) 191

Fabbri, F., see Boffa, V., **312** (1999) 202
Fan, Y.C., see Eulenburg, A., **312** (1999) 91
Fang, L., see Wen, H.-H., **312** (1999) 274
Fernández, J., see Mora, M., **312** (1999) 136
Fisher, I.R., see Cheon, K.O., **312** (1999) 35
Fontana, F., see Andreone, A., **312** (1999) 1
Fuchs, G., see Narozhnyi, V.N., **312** (1999) 233
Fuchs, M., see Calestani, G., **312** (1999) 225

Gawalek, W., see He, Z.H., **312** (1999) 261
Giannini, C., see Attanasio, C., **312** (1999) 112
Goretta, K.C., see Park, J.-H., **312** (1999) 269

Gritzner, G., see Kuzmann, E., **312** (1999) 45
Günther, W., W. Paulus and R. Schöllhorn, Correlation between synthesis, stoichiometry, structure and superconductivity of $La_{2-x}K_xCuO_{4-\delta}$, **312** (1999) 61
Guo, J.D., see Sun, Y., **312** (1999) 197

Halim, S.A., S.B. Mohamed, H. Azhan, S.A. Khawaldeh and H.A.A. Sidek, Effect of barium doping in Bi–Pb–Sr–Ca–Cu–O ceramics superconductors, **312** (1999) 78
Hardenbicker, P., see Lehndorff, B., **312** (1999) 105
Hashimoto, T., see Nagano, T., **312** (1999) 327
Hauser, S., see Calestani, G., **312** (1999) 225
He, M., see Wen, H.-H., **312** (1999) 274
He, Z.H., M.Z. Wu, G. Bruchlos, X.M. Xiong, Y.Y. Luo and W. Gawalek, $Y_2Ba_5(Sn_{3-y-z}Cu_yPt_z)O_x$ in textured YBCO superconductors, **312** (1999) 261
Holzapfel, B., see Kittelberger, S., **312** (1999) 7
Hong, I.P., see Chatterjee, S., **312** (1999) 55
Hortig, M., see Lehndorff, B., **312** (1999) 105
Huebener, R.P., see Kittelberger, S., **312** (1999) 7
Hušek, I., see Kováč, P., **312** (1999) 179

Iavarone, M., see Andreone, A., **312** (1999) 1
Inoue, S., see Nagano, T., **312** (1999) 327

Jurecka, Ch. and E. Schachinger, The phase diagram of an orthorhombic *d*-wave superconductor, **312** (1999) 304

Kasuya, T., Mechanism of anomalies in high T_c CuO_2 systems through magnetic polaron condensation, **312** (1999) 239
Khawaldeh, S.A., see Halim, S.A., **312** (1999) 78
Kittelberger, S., U. Bolz, R.P. Huebener, B. Holzapfel, L. Mex and R.A. Schwarzer, Transient local resistivity maximum during temperature-dependent oxygen diffusion in $YBa_2Cu_3O_{7-\delta}$ thin films, **312** (1999) 7
Kováč, P., I. Hušek, A. Rosova and W. Pachla, Thermomechanical treatment, structure and transport currents in multicore Bi(2223)/Ag tapes, **312** (1999) 179
Kuzmann, E., M. Mair and G. Gritzner, Mössbauer spectroscopy of Hg-1223 superconductors, **312** (1999) 45

Langhorn, J. and P.J. McGinn, Improved microstructural characteristics in $YBa_2Cu_3O_{7-x}$ thick films prepared by a modified powder melt process route, **312** (1999) 169
Larrea J., J.A., see Li, Y., **312** (1999) 283
Leelaprute, S., see Tang, I.M., **312** (1999) 321
Lehndorff, B., P. Hardenbicker, M. Hortig and H. Piel, Evidence for enhanced grain connectivity due to second phase reduction of Bi-2223/Ag tapes, **312** (1999) 105
Li, J.N., H.K. Liu and S.X. Dou, Comparison of pinning behavior in Bi-2223/Ag tapes with various preparation processing, **312** (1999) 71
Li, K.B., see Wang, Z.H., **312** (1999) 85
Li, S.Y., see Qian, G.G., **312** (1999) 299
Li, Y., J.A. Larrea J., E. Baggio-Saitovitch, G.C. Che, Z.X. Zhao, G.H. Cao and Z.X. Xu, Mössbauer studies on novel high-T_c (Sn,Sr)-doped $La_{2-2x}Sr_{2x}Cu_{1-x}Sn_xO_4$ superconductors, **312** (1999) 283
Lian, G.J., see Sun, Y., **312** (1999) 197
Lin, J.-Y., see Chatterjee, S., **312** (1999) 55
Lin, Z.W., J.W. Cochrane, N.E. Lumpkin and G.J. Russell, Magneto-optical observations of magnetic flux distribution in a high-temperature superconductor *x*-array, **312** (1999) 247
Liu, H.K., see Li, J.N., **312** (1999) 71
Lumpkin, N.E., see Lin, Z.W., **312** (1999) 247
Luo, Y.Y., see He, Z.H., **312** (1999) 261

Mair, M., see Kuzmann, E., **312** (1999) 45
Marinel, S., see Wang, J., **312** (1999) 328
Maritato, L., see Attanasio, C., **312** (1999) 112
Mazaki, H., see Tochihara, S., **312** (1999) 28
McGinn, P.J., see Langhorn, J., **312** (1999) 169
Mercaldo, L.V., see Attanasio, C., **312** (1999) 112
Mex, L., see Kittelberger, S., **312** (1999) 7
Migliori, A., see Calestani, G., **312** (1999) 225
Mohamed, S.B., see Halim, S.A., **312** (1999) 78
Monot, I., see Wang, J., **312** (1999) 328
Mora, M., J. Fernández, L.A. Angurel and R. Navarro, Pinning by planar high J_c defects and self field limited currents of textured Bi-2212 thin rods, **312** (1999) 136
Müller, K.-H., AC losses in stacks and arrays of YBCO/hastelloy and monofilamentary Bi-2223/Ag tapes, **312** (1999) 149
Müller, K.-H., see Narozhnyi, V.N., **312** (1999) 233
Müller, P., see Calestani, G., **312** (1999) 225
Munzar, D., C. Bernhard and M. Cardona, Does the peak in the magnetic susceptibility determine the in-plane infrared conductivity of YBCO? A theoretical study, **312** (1999) 121
Murayama, N. and W. Shin, Decomposition of (Bi,Pb)-2223 phase during sinter forging, **312** (1999) 255
Murayama, N., see Park, J.-H., **312** (1999) 269

Nagano, T., S. Inoue, T. Hashimoto and J. Yoshida, Erratum to 'Interface fabrication of $YBa_2Cu_3O_y$ ramp-edge junction with $PrBa_2(Cu_{1-x}Co_x)_3O_y$ barrier layer in enhanced oxidizing atmosphere' [Physica C 303 (1998) 231–245], **312** (1999) 327
Narozhnyi, V.N., D. Eckert, K.A. Nenkov, G. Fuchs, T.G. Uvarova and K.-H. Müller, Anomalous magnetic ordering in $PrBa_2Cu_3O_{7-y}$ single crystals: evidence for magnetic coupling between the Cu and Pr sublattices, **312** (1999) 233
Navarro, R., see Mora, M., **312** (1999) 136
Nenkov, K.A., see Narozhnyi, V.N., **312** (1999) 233

Ortega, L., see Attanasio, C., **312** (1999) 112

Pachla, W., see Kováč, P., **312** (1999) 179
Park, J.-H., K.C. Goretta and N. Murayama, Chemical diffusion of oxygen in dense, textured $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$, **312** (1999) 269
Paulus, W., see Günther, W., **312** (1999) 61
Pegrum, C.M., see Eulenburg, A., **312** (1999) 91
Petrisor, T., see Boffa, V., **312** (1999) 202
Piel, H., see Lehndorff, B., **312** (1999) 105
Polichetti, M., see Andreone, A., **312** (1999) 1

Prischepa, S.L., see Attanasio, C., **312** (1999) 112
Provost, J., see Wang, J., **312** (1999) 328

Qian, G.G., X.H. Chen, K.Q. Ruan, S.Y. Li, Q. Cao, C.Y. Wang, L.Z. Cao and M. Yu, Raman-active phonons in $Bi_2Sr_{2-x}La_xCaCu_2O_y$: effect of the oxygen content induced by La doping, **312** (1999) 299

Range, K.-J., see Calestani, G., **312** (1999) 225
Renk, K.F., see Calestani, G., **312** (1999) 225
Riches, J.D., J.A. Alarco and J.C. Barry, Phase composition of the rapidly quenched melt of $YBa_2Cu_3O_{7-y}$ + 20 mol% Y_2BaCuO_5, **312** (1999) 21
Romans, E.J., see Eulenburg, A., **312** (1999) 91
Rosova, A., see Kováč, P., **312** (1999) 179
Ruan, K.Q., see Qian, G.G., **312** (1999) 299
Russell, G.J., see Lin, Z.W., **312** (1999) 247
Russo, M.L., see Andreone, A., **312** (1999) 1

Salvato, M., see Attanasio, C., **312** (1999) 112
Scardi, P., see Boffa, V., **312** (1999) 202
Schachinger, E., see Jurecka, Ch., **312** (1999) 304
Schauer, T., see Calestani, G., **312** (1999) 225
Schöllhorn, R., see Günther, W., **312** (1999) 61
Schwarzer, R.A., see Kittelberger, S., **312** (1999) 7
Shin, W., see Murayama, N., **312** (1999) 255
Sidek, H.A.A., see Halim, S.A., **312** (1999) 78
Singh, R. and D.R. Sita, Thermoelectric power of the $Bi_2Sr_2Ca_{1-x}Tb_xCu_2O_y$ system, **312** (1999) 289
Sita, D.R., see Singh, R., **312** (1999) 289
Soman, Y., see Suzuki, M., **312** (1999) 191
Spreitzer, U., see Calestani, G., **312** (1999) 225
Sun, Y., J.D. Guo, X.L. Xu, G.J. Lian, Y.Z. Wang and G.C. Xiong, Superconducting $HgBa_2CaCu_2O_y$ thin films growth on $NdGaO_3$, $SrTiO_3$, $LaAlO_3$ and Y–ZrO_2 substrates, **312** (1999) 197
Suzuki, M., Y. Soman, E. Tarte, P. Berghuis and J. Evetts, Preparation and properties of *c*-axis-oriented $NdBa_2Cu_3O_{7-\delta}$ films by dc sputtering, **312** (1999) 191
Svistunov, V.M., A.I. D'yachenko, V.Yu. Tarenkov and R. Aoki, Andreev reflection spectroscopy of high-T_c superconductors at high pressures, **312** (1999) 40

Tang, I.M., S. Leelaprute and P. Winotai, Rare earth ion size effect in the rates of suppression of the T_c's of the 'RE-123' high-temperature superconductors due to magnetic ion substitution into the Cu(2) sites, **312** (1999) 321
Tapfer, L., see Attanasio, C., **312** (1999) 112
Tarenkov, V.Yu., see Svistunov, V.M., **312** (1999) 40
Tarte, E., see Suzuki, M., **312** (1999) 191
Tochihara, S., H. Yasuoka and H. Mazaki, Surface barriers in a single-crystal $YBa_2Cu_3O_y$ bulk superconductor, **312** (1999) 28

Uvarova, T.G., see Narozhnyi, V.N., **312** (1999) 233

Vaglio, R., see Andreone, A., **312** (1999) 1
Varlashkin, A., see Calestani, G., **312** (1999) 225

Waldmann, O., see Calestani, G., **312** (1999) 225
Wang, C.Y., see Qian, G.G., **312** (1999) 299
Wang, J., I. Monot, X. Chaud, A. Erraud, S. Marinel, M.P. Delamare, J. Provost and G. Desgardin, Erratum to 'Fabrication and characterisation of large-grain $YBa_2Cu_3O_7$ superconductors by seeded melt texturing' [Physica C 304 (1998) 191–201], **312** (1999) 328
Wang, Y.Z., see Sun, Y., **312** (1999) 197
Wang, Z.H., K.B. Li, Z.Y. Chen, H. Zhang and X.W. Cao, Pinning by planar defects along the *c*-axis in epitaxial $YBa_2Cu_3O_{7-\delta}$ thin films, **312** (1999) 85
Wen, H.-H., Z.-X. Zhao, S.-L. Yan, L. Fang and M. He, Flux dynamics and vortex phase diagram determined on a ring-shaped $Tl_2Ba_2CaCu_2O_8$ thin film, **312** (1999) 274
Weng, S.S., see Chatterjee, S., **312** (1999) 55
Winotai, P., see Tang, I.M., **312** (1999) 321
Wu, M.Z., see He, Z.H., **312** (1999) 261

Xiong, G.C., see Sun, Y., **312** (1999) 197
Xiong, X.M., see He, Z.H., **312** (1999) 261
Xu, X.L., see Sun, Y., **312** (1999) 197
Xu, Z.X., see Li, Y., **312** (1999) 283

Yan, S.-L., see Wen, H.-H., **312** (1999) 274
Yang, H.D., see Chatterjee, S., **312** (1999) 55
Yasuoka, H., see Tochihara, S., **312** (1999) 28
Yoshida, J., see Nagano, T., **312** (1999) 327
Yu, M., see Qian, G.G., **312** (1999) 299

Zeyher, R., see Cappelluti, E., **312** (1999) 313
Zhang, H., see Wang, Z.H., **312** (1999) 85
Zhao, Z.-X., see Wen, H.-H., **312** (1999) 274
Zhao, Z.X., see Li, Y., **312** (1999) 283

ELSEVIER

Physica C 312 (1999) 332–333

PHYSICA C

Analytic Subject Index to Volume 312

AC losses
–in Bi-2223/Ag tapes 149
–in YBCO/hastelloy 149
AC-susceptibility
–of $Bi_2Pb_{0.6}Sr_2Ca_{2-x}Ba_xCu_3O_\delta$ 78
Alkali doping
–of $La_{2-x}K_xCuO_{4-\delta}$ 61
Andreev spectroscopy 40
Angular dependence 85
Anisotropy
–of Bi(2223)/Ag tapes 179
Anomalies mechanism 239
Antiferromagnetic order
–in $PrBa_2Cu_3O_{7-y}$ single crystals 233

Bean–Livingston barrier
–in $YBa_2Cu_3O_y$ single crystal 28
Bose condensation 239

Carrier concentration
–in $La_{2-2x}Sr_{2x}Cu_{1-x}Sn_xO_4$ 283
Coated conductors 149
Complex susceptibilities
–of $YBa_2Cu_3O_y$ single crystal 28
Coulomb interactions 313
Critical current density
–of Bi(2223)/Ag tapes 179
–of Bi-2212 textured thin rods 136
–of Bi-2223/Ag tapes 71, 105
–of $Bi_{1.84}Pb_{0.34}Sr_{2.03}Ca_{1.9}Cu_{3.06}O_y$ 255
–of $HgBa_2CaCu_2O_y$ thin films 197
–of $YBa_2Cu_3O_{7-\delta}$ thin films 85
Critical temperature
–of $NdBa_2Cu_3O_{7-\delta}$ thin films 191
Crystal structure
–of $La_{2-x}K_xCuO_{4-\delta}$ 61
Cu-O chains
–in $(Y_{1-x}Pr_x)Ba_2Cu_4O_8$ 55
CuO_2
–in $(Y_{1-x}Pr_x)Ba_2Cu_4O_8$ 55

Decomposition
–of $Bi_{1.84}Pb_{0.34}Sr_{2.03}Ca_{1.9}Cu_{3.06}O_y$ 255
Doping effect
–in $Bi_2Pb_{0.6}Sr_2Ca_{2-x}Ba_xCu_3O_\delta$ 78
–on $La_{2-2x}Sr_{2x}Cu_{1-x}Sn_xO_4$ 283
Dynamic conductance 40

Eddy current loss
–in Bi-2223/Ag tapes 149
–in YBCO/hastelloy 149
Effective mass model 304
Electrical resistivity
–of $(Y_{1-x}Pr_x)Ba_2Cu_4O_8$ 55
–of $Bi_2Pb_{0.6}Sr_2Ca_{2-x}Ba_xCu_3O_\delta$ 78
–of $Bi_2Sr_2Ca_{1-x}Tb_xCu_2O_y$ 289
–of $YBa_2Cu_3O_{7-\delta}$ thin films 7, 85
Electron microscopy
–on $(C_xCu_{1-x})Ba_2Ca_{n-1}Cu_nO_{2n+3}$ 225
Energy gap 40
Excess oxygen defect
–in $La_{2-2x}Sr_{2x}Cu_{1-x}Sn_xO_4$ 283
Experimental design 91

Far-infrared spectra
–for $YBa_2Cu_3O_{7-\delta}$ 121
^{57}Fe Mössbauer spectroscopy
–of $(Hg_{0.3}Pb_{0.4})(Sr_{0.8}Ba_{0.2})_2Ca_2Cu_3O_y$ 45
Flux creep
–in $Tl_2Ba_2CaCu_2O_8$ thin film 274
Flux flow
–in Bi-2212 textured thin rods 136
Flux phase 313
Flux pinning
–in Bi-2223/Ag tapes 71
–in $Tl_2Ba_2CaCu_2O_8$ thin film 274
–in $YBa_2Cu_3O_{7-\delta}$ thin film 85

Glassy state
–in $Tl_2Ba_2CaCu_2O_8$ thin film 274
Grain alignment
–in $Bi_{1.84}Pb_{0.34}Sr_{2.03}Ca_{1.9}Cu_{3.06}O_y$ 255
Grain alignment (texturing)
–in Bi(2223)/Ag tapes 179
Grain boundaries
–in Bi-2212 textured thin rods 136
Grain connectivity
–in Bi-2223/Ag tapes 105
Growth
–of $HgBa_2CaCu_2O_y$ thin films 197
Growth mechanism
–of $(C_xCu_{1-x})Ba_2Ca_{n-1}Cu_nO_{2n+3}$ 225

Interstitial oxygen
–in $La_2CuO_{4+\delta}$ 213
Ion size effect 321
Isotope effect
–in $LuNi_2B_2C$ 35
–in YNi_2B_2C 35
IV-characteristics
–of $Tl_2Ba_2CaCu_2O_8$ thin film 274

Magnetic flux distribution
–in $NdBa_2Cu_3O_{7-\delta}$ thin film 247
Magnetic polaron condensation 239
Magnetic susceptibility
–of $PrBa_2Cu_3O_{7-y}$ single crystals 233
Magnetization
–of $ErNi_2B_2C$ thin films 1
–of $LuNi_2B_2C$ single crystal 35
–of $PrBa_2Cu_3O_{7-y}$ single crystals 233
–of YNi_2B_2C single crystal 35
Magneto-optical visualization 247
Melt texturing
–of $YBa_2Cu_3O_{7-y}$ 21
Microstructure
–of $(Hg_{0.3}Pb_{0.4})(Sr_{0.8}Ba_{0.2})_2Ca_2Cu_3O_y$ 45
–of Bi-2223/Ag tapes 105
–of $YBa_2Cu_3O_{7-x}$ thick film 169
–of $YBa_2Cu_3O_{7-y}$ 21
Modified Kim–Anderson critical state model 28
Mössbauer spectroscopy
–on $La_{2-2x}Sr_{2x}Cu_{1-x}Sn_xO_4$ 283

Order parameter 304
Oxygen diffusion
–in $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 269
–in $YBa_2Cu_3O_{7-\delta}$ thin films 7
Oxygen stoichiometry
–in $La_2CuO_{4+\delta}$ 213
–of $Bi_2Sr_{2-x}La_xCaCu_2O_y$ 299
–of $La_{2-x}K_xCuO_{4-\delta}$ 61
Oxygen vacancies
–in $La_2CuO_{4+\delta}$ 213

Particle size
–in $Y_{1+x}Ba_2Cu_3O_{7+\delta}$ 261

Phase diagram 304
Phase equilibria
–in $YBa_2Cu_3O_{7-y}$ 21
Phonon mechanism 35
Pinning force
–in Bi(2223)/Ag tapes 179
–in Bi-2223/Ag tapes 71
Pinning mechanisms
–in Bi-2212 textured thin rods 136
Planar defects
–in $YBa_2Cu_3O_{7-\delta}$ thin film 85
Powder melt process
–of $YBa_2Cu_3O_{7-x}$ thick film 169
Pseudogap 313
Pulsed laser deposition
–of $NdBa_2Cu_3O_{7-\delta}$ thin films 91
–of $YBa_2Cu_3O_{7-\delta}$ thin films 91

Raman scattering
–on Bi2212 299
–on $Bi_2Sr_{2-x}La_xCaCu_2O_y$ 299

Scanning electron microscopy
–on Bi(2223)/Ag tapes 179
Sinter forging
–of $Bi_{1.84}Pb_{0.34}Sr_{2.03}Ca_{1.9}Cu_{3.06}O_y$ 255
^{119}Sn Mössbauer spectroscopy
–of $(Hg_{0.3}Pb_{0.4})(Sr_{0.8}Ba_{0.2})_2Ca_2Cu_3O_y$ 45
Solidification
–of $YBa_2Cu_3O_{7-y}$ 21
Spin-fluctuations
–in $YBa_2Cu_3O_{7-\delta}$ 121
STM
–on $ErNi_2B_2C$ thin films 1
Structure
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 269
–of $(C_xCu_{1-x})Ba_2Ca_{n-1}Cu_nO_{2n+3}$ 225
–of $Bi_2Sr_{2-x}La_xCaCu_2O_y$ 299
–of CeO_2 thin films 202
–of $ErNi_2B_2C$ thin films 1
–of $HgBa_2CaCu_2O_y$ thin films 197
–of $Y_{1+x}Ba_2Cu_3O_{7+\delta}$ 261
Substitution effect 321
Substrates
–for $HgBa_2CaCu_2O_y$ thin films 197
Suppression of T_c 321
Surface microstructure
–of $YBa_2Cu_3O_{7-\delta}$ thin films 7
Surface morphology
–of $NdBa_2Cu_3O_{7-\delta}$ thin films 191
Synthesis
–of $(Bi,Pb)_2Sr_2Ca_2Cu_3O_x$ 269
–of $(C_xCu_{1-x})Ba_2Ca_{n-1}Cu_nO_{2n+3}$ 225
–of Bi-2223/Ag tapes 71, 105
–of CeO_2 thin films 202
–of $ErNi_2B_2C$ thin films 1
–of $La_{2-x}K_xCuO_{4-\delta}$ 61
–of $NdBa_2Cu_3O_{7-\delta}$ thin films 191
–of $Y_2Ba_5(Sn_{3-y-z}Cu_yPt_z)O_x$ 261

t–J model 313
Texture growth
–of $Y_{1+x}Ba_2Cu_3O_{7+\delta}$ 261
Theoretical models 289
Thermoelectric power
–of $Bi_2Sr_2Ca_{1-x}Tb_xCu_2O_y$ 289
–in $(Y_{1-x}Pr_x)Ba_2Cu_4O_8$ 55
Thin film growth
–of $NdBa_2Cu_3O_{7-\delta}$ 91
–of $YBa_2Cu_3O_{7-\delta}$ 91
Transmission electron microscopy
–on Bi(2223)/Ag tapes 179

Upper critical field H_{c2}
–of $ErNi_2B_2C$ thin films 1
Upper critical field H_{c2} 112

d-Wave superconductor 121, 304

X-ray diffraction
–of $Bi_2Pb_{0.6}Sr_2Ca_{2-x}Ba_xCu_3O_\delta$ 78
–of $YBa_2Cu_3O_{7-x}$ thick film 169
–on CeO_2 thin films 202